

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number  
**WO 2005/056585 A2**

(51) International Patent Classification<sup>7</sup>: **C07K 14/165**

Timothy Hoe Peng [MY/SG]; 20 Mei Hwan Crescent, Singapore 568465 (SG). FU, Jian Lin [SG/SG]; 10 Dover Rise, #15-10, Singapore 138680 (SG).

(21) International Application Number:  
PCT/IB2004/004073

(22) International Filing Date:  
10 December 2004 (10.12.2004)

(74) Agent: **FALLER, F., Brice**; Cohen Pontani Lieberman & Pavane, 551 Fifth Avenue, Suite 1210, New York, NY 10176 (US).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/528,596 10 December 2003 (10.12.2003) US

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH** [SG/SG]; 10 Science Park Road, #01-01/03 The Alpha, Singapore Science Park II, Singapore 117684 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for LC only): **CHENG, Kent, H.** [US/US]; Cohen, Pontani, Lieberman & Pavane, 551 Fifth Avenue, Suite 1210, New York, NY 10176 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHEN, Shuo** [CN/SG]; Apt Blk 608, Clementi West St. 1, #09-89 Singapore 120608 (SG). **HONG, Wanjin** [SG/SG]; 835 Bukit Timah Road, #01-07 Royal Ville, Singapore 279888 (SG). **LIM, Seng Gee** [AU/SG]; 109 Clementi Road, #07-08, Singapore 129-791 (SG). **TAN, Yee Joo** [SG/SG]; 33B St. Patrick's Road, Singapore 424153 (SG). **FIELDING, Burtram, Clinton** [ZA/SG]; Blk. 3 #03-03, Pine Grove, Singapore 597590 (SG). **GOH, Phuay, Yee** [SG/SG]; 17 Lorong H Telok Kurau, Singapore 426001 (SG). **TAN,**

**Published:**

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SARS CORONAVIRUS S PROTEINS AND USES THEREOF**

(57) Abstract: The present invention relates to the use of a matured, glycosylated Spike (S) protein of SARS Coronavirus, fragments of the S protein, methods for producing the same, their use in detecting SARS infection, and their use or the use of their corresponding antibodies to treat patients suffering from SARS.

WO 2005/056585 A2